

Title (en)

Mixtures of fibre-reactive azo dyes, process for their preparation and their use

Title (de)

Mischungen von faserreaktiven Azofarbstoffen, Verfahren zu deren Herstellung und ihre Verwendung

Title (fr)

Mélanges de colorants azoïques réactifs sur la fibre, procédé pour leur préparation et leur utilisation

Publication

EP 1666540 A1 20060607 (DE)

Application

EP 05111461 A 20051129

Priority

DE 102004058151 A 20041202

Abstract (en)

Dye mixture (A) comprises diazenyl dye compound (I) and phenylazo dye compound (II). Dye mixture (A) comprises diazenyl dye compound of formula (I) and phenylazo dye compound of formula (II). M : H or alkali metal; m : 1-3; D : benzol or naphthalene; Y, Y 1>, Y 2>vinyl or ethyl, in which beta -position is substituted with alkali eliminatable substituents; R 1>H, 1-4C alkyl, 1-4C alkoxy or sulfo; R 2>amino or 1-4C alkyl (substituted with carboxy, sulfo or -SO 2-Y 2>); R 3>H, Cl, 1-4C alkyl, 1-4C alkoxy or sulfo; R 4>H, 1-4C alkyl or 1-4C alkoxy; Z : fiber reactive groups (halopyrimidine, dichloroquinoxaline or halotriazine) optionally carries a sulfonyl compound of formula (-NR 5>-B 1>-SO 2-Y); R 5>H or 1-4C alkyl; and B 1>4-6C alkylene (optionally interrupted by heteroatoms), phenylene or 2-4C alkylene. Independent claims are also included for: (1) a method for coloring hydroxy- and/or carbonamide group containing material (preferably synthetic material), comprising applying dyes on the material and followed by heating and/or with alkaline active agents, where the dyes used are (A) as colorants; (2) aqueous printing ink for textile printing after ink-jet procedure, comprising 0.01-40 wt.% of (A) related on the total weight of the ink; (3) a method for printing on textile fiber materials after ink-jet procedure, comprising one of the aqueous printing inks; and (4) natural or regenerated cellulose fibers, leathers, wool, silk, polyamide or polyurethane fibers, digitally printed with aqueous printing inks. [Image].

IPC 8 full level

C09B 67/22 (2006.01); **C09B 62/026** (2006.01); **C09D 11/02** (2006.01)

CPC (source: EP KR US)

C09B 62/006 (2013.01 - KR); **C09B 67/0033** (2013.01 - KR); **C09B 67/0054** (2013.01 - EP US); **C09D 11/328** (2013.01 - EP US)

Citation (search report)

- [A] EP 1000982 A2 20000517 - DYSTAR TEXTILFARBEN GMBH & CO [DE]
- [A] US 6171349 B1 20010109 - LAI BAO-KUN [TW], et al & DE 19851497 A1 20000518 - DYSTAR TEXTILFARBEN GMBH & CO [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02 29 February 1996 (1996-02-29)

Cited by

WO2008095802A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1666540 A1 20060607; **EP 1666540 B1 20080326**; AT E390465 T1 20080415; BR PI0505346 A 20060711; CA 2528436 A1 20060602; CN 1800267 A 20060712; DE 102004058151 A1 20060608; DE 502005003440 D1 20080508; ES 2303992 T3 20080901; JP 2006213911 A 20060817; KR 20060061894 A 20060608; MX PA05012935 A 20060606; PL 1666540 T3 20080930; PT 1666540 E 20080606; TW 200634103 A 20061001; US 2006117500 A1 20060608; ZA 200509695 B 20060830

DOCDB simple family (application)

EP 05111461 A 20051129; AT 05111461 T 20051129; BR PI0505346 A 20051130; CA 2528436 A 20051130; CN 200510128802 A 20051130; DE 102004058151 A 20041202; DE 502005003440 T 20051129; ES 05111461 T 20051129; JP 2005347869 A 20051201; KR 20050115459 A 20051130; MX PA05012935 A 20051130; PL 05111461 T 20051129; PT 05111461 T 20051129; TW 94142103 A 20051130; US 28918705 A 20051129; ZA 200509695 A 20051130